

Technical Specification Group Services and System Aspects
Meeting #28, Québec, Canada, June 2005

Source: **MCC Team Manager** ([John M Meredith](#))
Title: **Report of Support Team activities**
Document for: **Information**
Agenda Item: **10**

1 The Support Team

1.1 Departures and arrivals

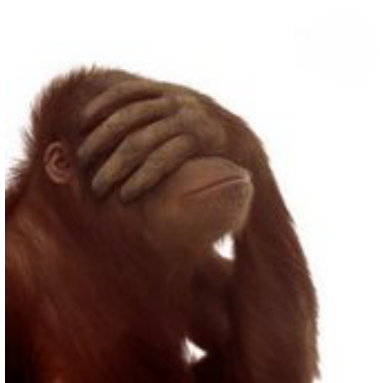
After a turbulent period of moves and changes, the personnel of the support team has at last stabilized.

Gaby Lenhart started work in the Support Team at the beginning of May, looking after CT6 and ETSI SCP.



Gaby Lenhart

By the miracle of modern photography, I am pleased to be able to bring you a more lifelike photograph of our new Assistant, Frances. Many of you will have met her spilling coffee and wine down her front during the present meeting.



before



after

Frances Martin-Isaacs

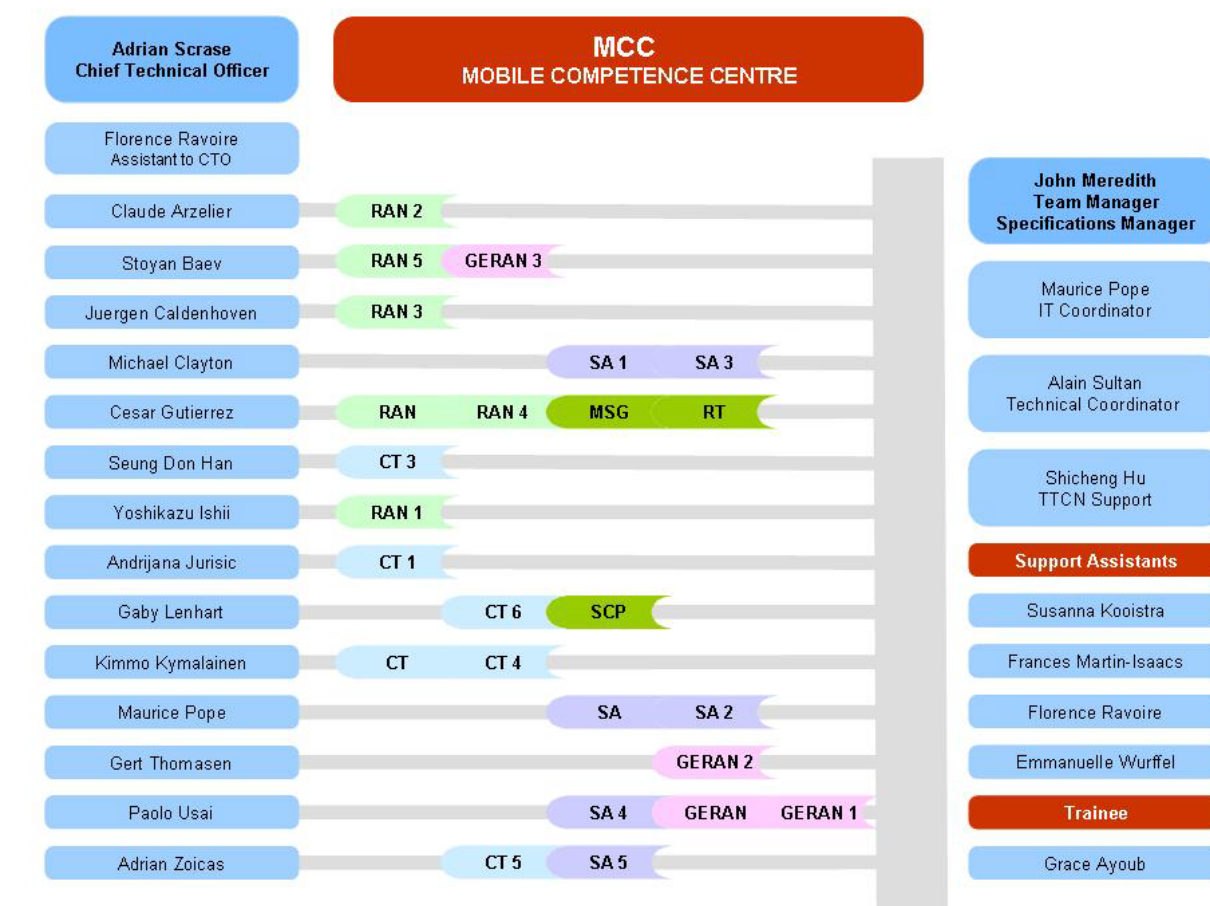
Formerly merely an ethereal URL, Stoyan Baev can now be shown in a more immediate likeness. Those here during TSG RAN last week will have met him already. He services the testing groups, RAN5 and GERAN3.



Stoyan Baev

1.2 Organization of the Support Team

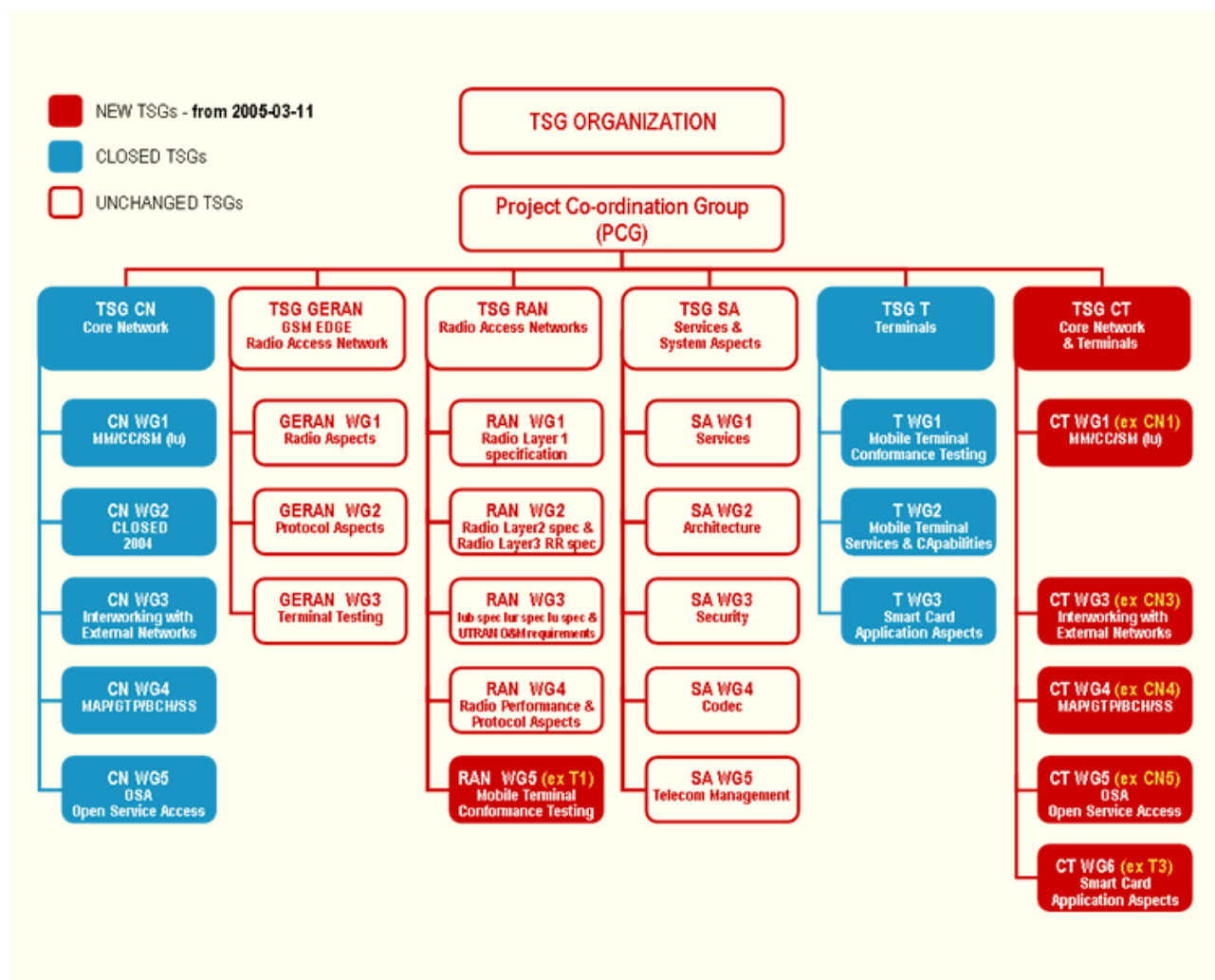
A picture is worth a thousand words:



Last update: 2005-03-18

MCC organizational chart

So two pictures are worth two thousand:



3GPP structure

2 Statistics and targets

2.1 Interesting statistics

The distribution of active specs amongst the various Releases was, prior to the start of the current TSG meetings, as follows:

Table 1: Specs by Release

CLASSIFICATION	NUMBER OF ACTIVE SPECS
GSM Phase 1	122
GSM Phase 2	182
GSM Phase 2+ Release 96	201
GSM Phase 2+ Release 97	220
GSM Phase 2+ Release 98	282
GERAN / UTRAN Release 99	446
GERAN / UTRAN Release 4	518
GERAN / UTRAN Release 5	581
GERAN / UTRAN Release 6	788
GERAN / UTRAN Release 7	71
TOTAL SPECIFICATIONS	3411

from query 2002-04-12_live-specs-per-Rel

It is expected that **360** new versions of specifications will result from CRs TSGs#28.

from query 2001-09-18_specs-which-may-change

A further **9** specs have been brought under change control at this meeting.

from query 2004-12-12_newly-approved

The table and chart below show the number of approved change requests for these specifications across the different 3GPP Releases in each year of the 3GPP's life so far (not including the present meeting).

Table 2: CRs by year and Release

Release / Year	1999	2000	2001	2002	2003	2004	2005 to date (excluding present round of meetings)	TOTAL
R99	1408	4398	2266	1003	581	512	39	10207
Rel-4	0	376	2828	1900	690	257	46	6097
Rel-5	0	27	644	3281	2840	2162	370	9324
Rel-6	0	0	0	171	1088	2457	1103	4819
Rel-7	0	0	0	0	1	20	29	50
TOTAL	3407	6801	7739	8357	7203	7412	1587	30497

from query 2004-04-14_approved-CRs-per-release-per-year_Crosstab

Table 2a: Table of irrelevant and misleading data with autocalculation of meaningless total by MS Word

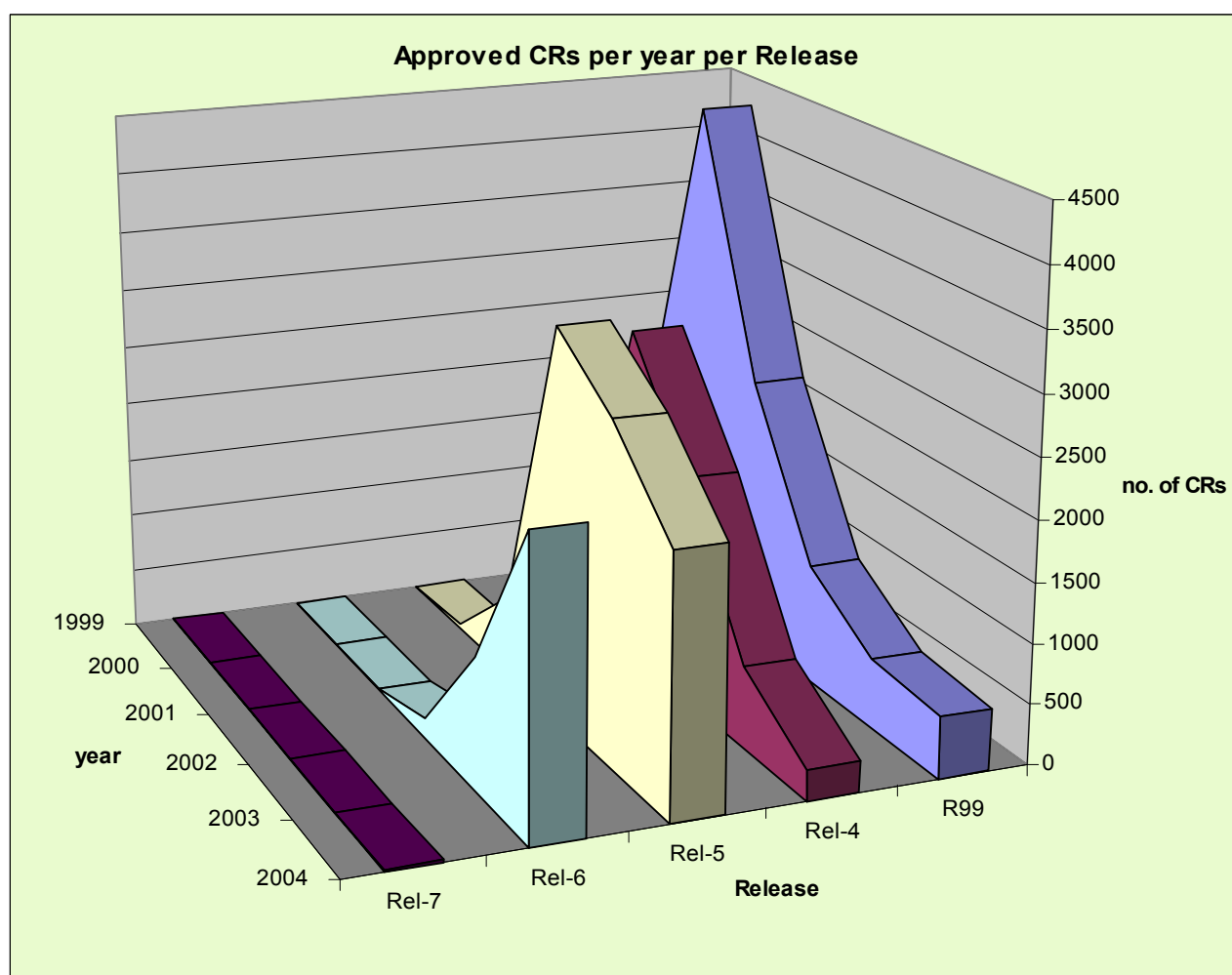
Year	Release
1999	R99
2000	(R00)
2001	Rel-4
2002	Rel-5
2003	
2004	Rel-6
2005	
Sum of years since project started	<u>16020</u>

At the present meeting, the CRs approved against each Release and in each Category are shown in the table below.

Table 3: Approved CRs at the present meeting, by Release

Phase	A	B	C	D	F	Total CRs
R99					23	23
Rel-4	17				10	27
Rel-5	21	28	98	5	268	420
Rel-6	81	53	121	7	539	801
Rel-7	17	34	7	2	15	75
Total	136	115	226	14	855	1346

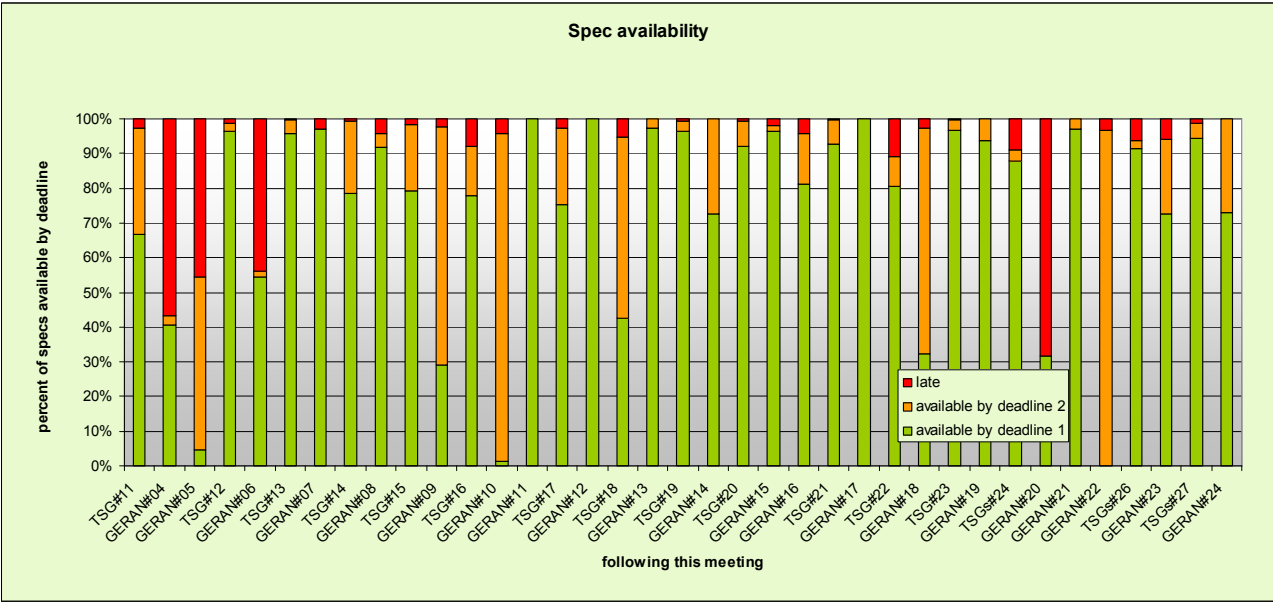
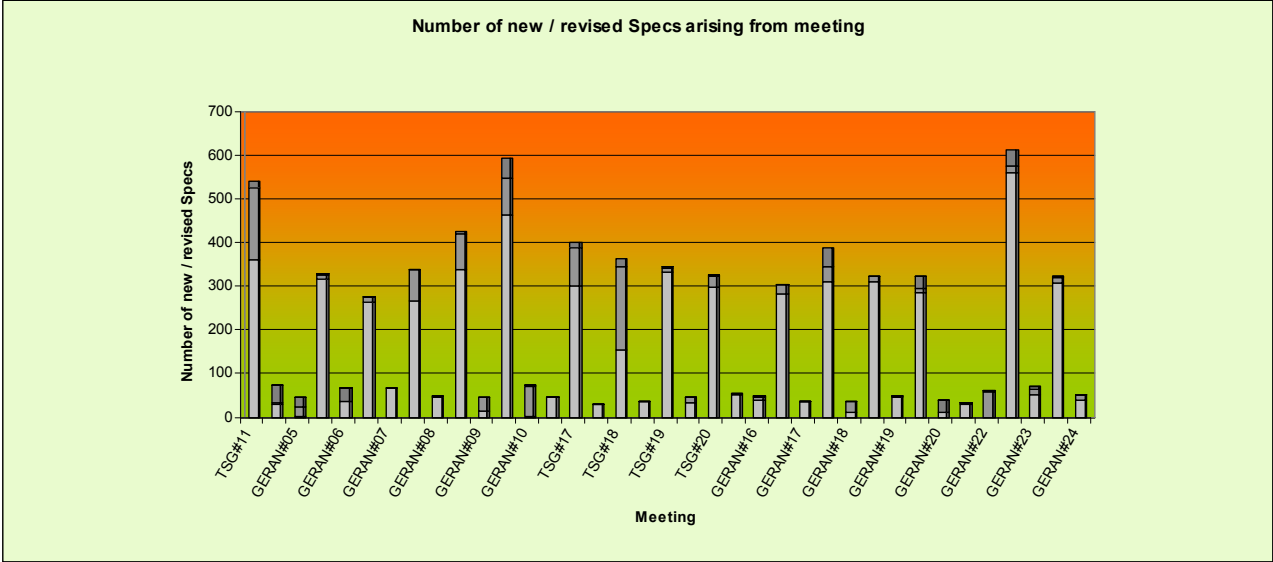
from query 2004-12-14_newly-approved-CRs_by_Rel-and-Cat_step2



3GPP CR evolution from 1999 to 2004

2.2 MCC performance

The chart below shows the speed of implementation of CRs. Performance is generally within the limits agreed with the TSGs (90% of revised specs available within two working weeks of the end of the SA meeting, the remaining 10% within a further week, allowing for resolution of implementation queries not identified earlier).



MCC spec production performance

The chart below shows the cumulative error rate for the implementation of CRs. It can be seen that the error rate remains stable at consistently under 3,5 errors in 1000 implementations (0,35%). Whilst every error is inconvenient for somebody somewhere, we believe that the present figure is acceptable. Doubtless the TSG and WG chairmen and delegates will tell us if they consider it not to be so.

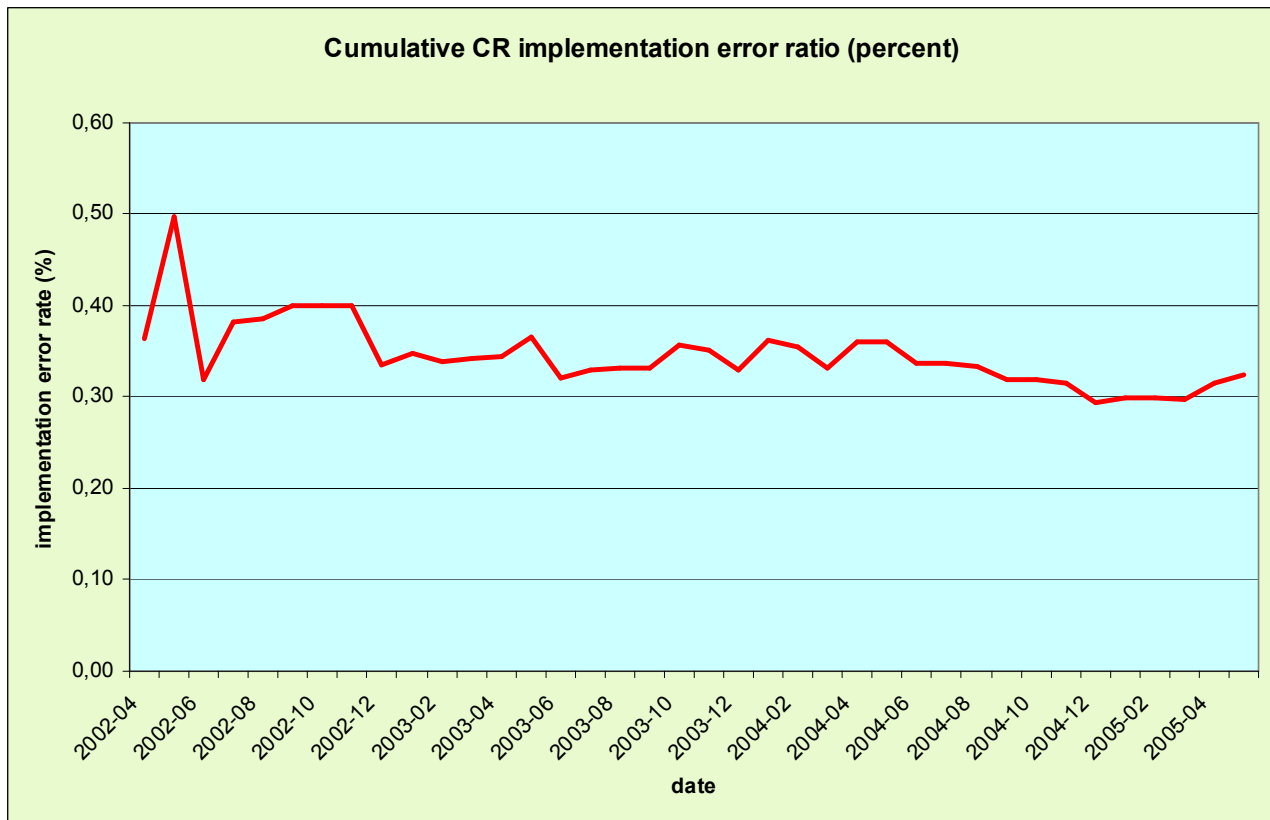
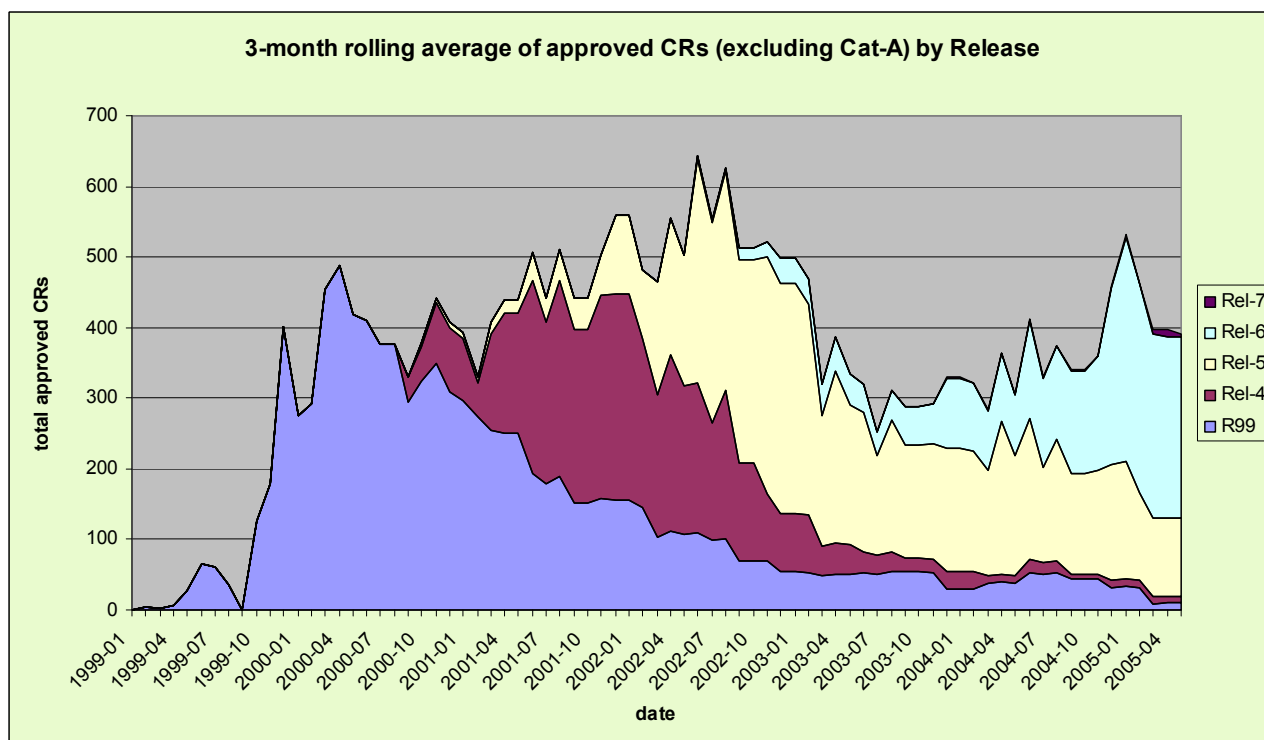


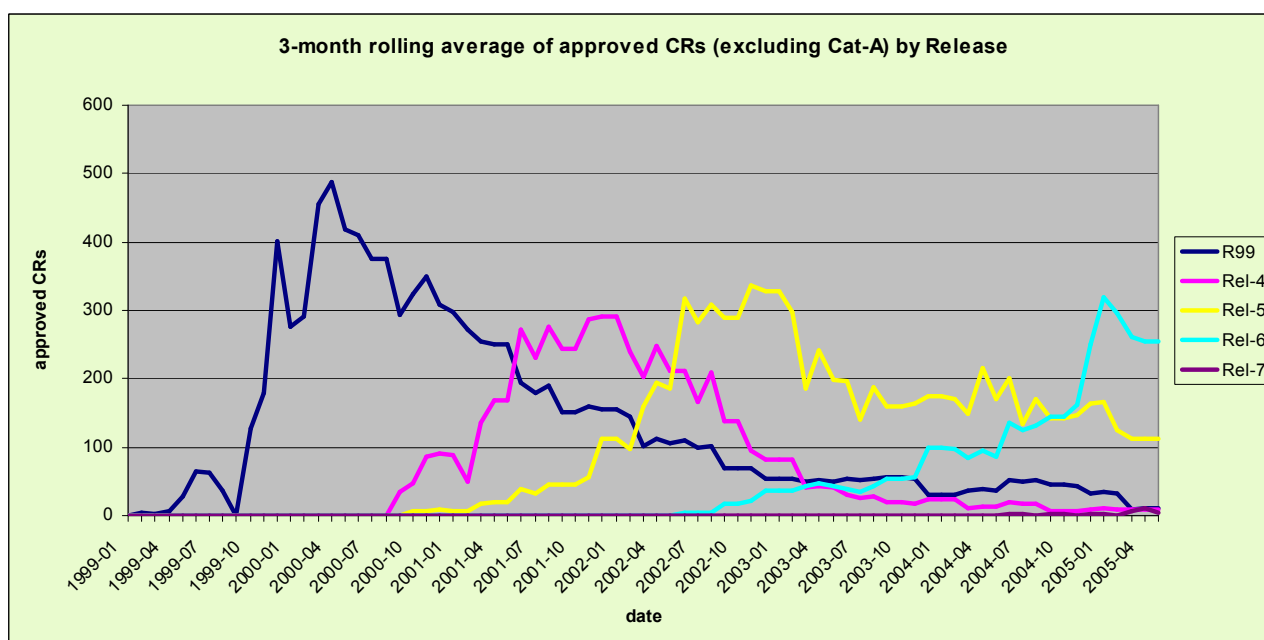
Figure 4: CR implementation error rate

3 Release Stability

The charts below show the rolling average of the number of Change Requests per Release but excludes Category A (mirror) CRs. The charts show the continued reduction in the number of CRs for Release 5 and a definite diminution for Release 6, which implies an increased level of stability. CRs against R99 and Rel-4 have reduced to the level of background noise, indicating extremely stable specification sets.

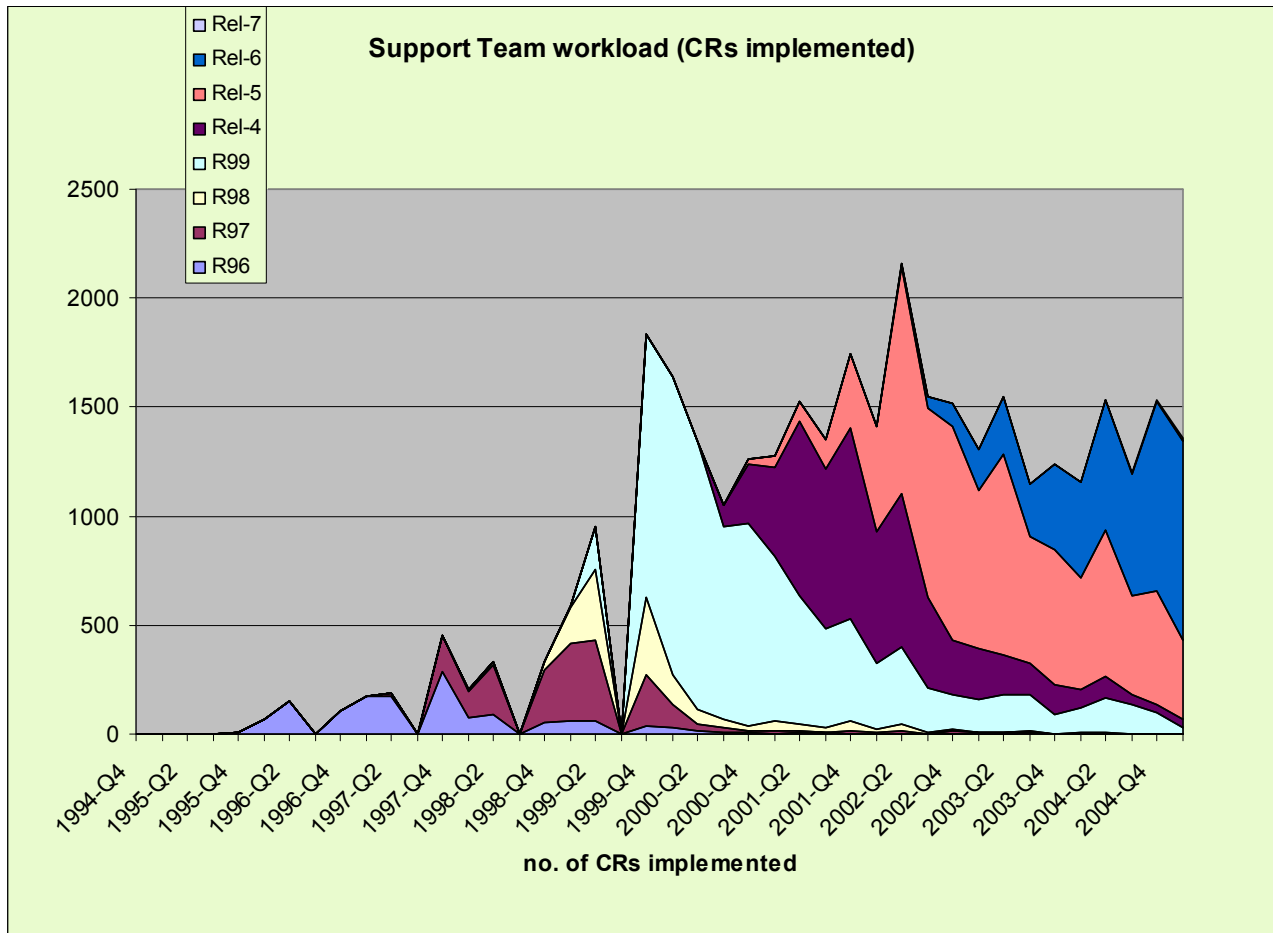


CR statistics (cumulative)



CR statistics

The figure below shows the overall workload on the Support Team related to CR implementation.



CR implementation workload

4 Concluding remarks

We appreciate that certain Working Groups suffered a period of less than optimum service caused by the moves and changes in personnel. However, things have now stabilized and we hope that period is over. I am confident that the Support Team has the will and capabilities to give you, the delegates and elected officials, the service you need and want.

